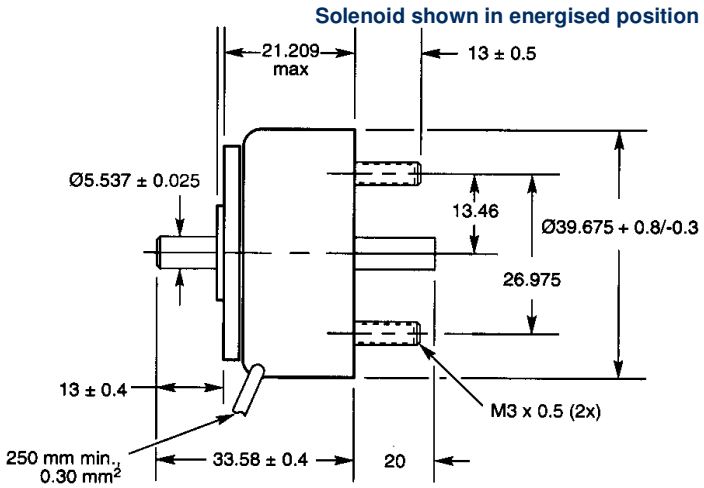
Size 4ECM Low Profile Solenoid

Push and Pull Linear

Medium Stroke, Conical Face
Part No: 282348-0XX

- **Dielectric Strength:** 23-24 awg. 1000 VRMS / 25-33 awg. 1200 VRMS
- **Recommended Heat Sink:** Maximum watts dissipated by the solenoid are based on an unrestricted flow of air at 20° C mounted on the equivalent of an aluminium plate 159x159x3.2mm min



General Specifications:

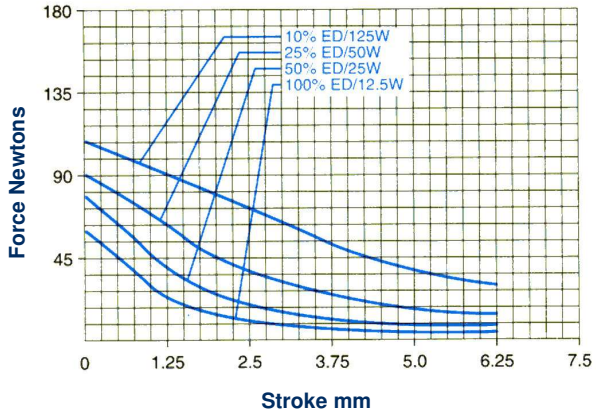
- **Coil Resistance:** 23-33 awg. +/- 5% tolerance
- **Holding Force:** 71.2 N @ 105° C
- **Weight:** 170 g
- **Typical Performance Details for 4E Series:**
  - Up to 105 N force at 0.5 mm stroke
  - Under 6 milliseconds response time for 1 mm stroke under no load conditions
  - Conical pole face allows increased stroke with minimal reduction in performance
  - Pull or push design

Notes

1. Continuously pulsed at stated watts and duty cycle
2. Single pulsed at stated watts (with coil at ambient room temperature 20°C)
3. Other coil gauges available, consult factory
4. Reference number of turns
5. Anti rotational mounting bushes available on request

Performance Specification

Typical Starting Force @ 20°C



How to Order

Add the coil awg. number to the part number, alternatively please specify:

- Voltage
- Duty Cycle
- Starting Force
- Stroke Required
- Any Special Requirements

Coil Specifications

Maximum Duty Cycle	100%	50%	25%	10%
Maximum ON Time (seconds) When pulsed continuously (1)	∞	100	36	9
Maximum ON Time (seconds) for single pulse (2)	∞	162	44	10
Watts (@20° C)	12.5	25	50	125
Ampere Turns (@ 20° C)	714	1000	1425	2250

Coil Data

awg. (0XX) (3)	Resistance (@ 20°C)	# Turns (4)	Nominal DC Voltage			
23	1.59	266	4.3	6.0	8.5	13.4
24	2.20	301	5.2	7.3	10.4	16.4
25	3.54	384	6.6	9.2	13.1	21.0
26	5.67	486	8.3	11.7	16.6	26.0
27	8.76	600	10.4	14.6	21.0	33.0
28	13.80	748	13.2	18.5	26.0	42.0
29	22.60	975	16.6	23.0	33.0	52.0
30	34.80	1190	21.0	29.0	42.0	66.0
31	56.70	1520	27.0	37.0	53.0	84.0
32	88.30	1908	33.0	46.0	66.0	104.0
33	138.00	2360	42.0	59.0	83.0	132.0

Please Note: In line with continued development we reserve the right to amend specification without prior notice (Rev 01/12)

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